

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Volumes of Cylinders, Cones and Spheres

Round all numbers to the nearest hundredth. Don't forget units!

Show all work!



1. Assume that the snow globe is a perfect sphere. The circumference of the sphere is 8.5 inches. Find the volume of the snow globe (not including the base).

2. A wooden block has holes drilled in it. The holes have a radius of 6 cm and a height of 10 cm. Find the volume of each hole.



3. A traffic cone is three feet tall and has a diameter of one foot. Find the volume of the

cone.



4. The base of an ice cream cone has a circumference of 15 cm. The height of the cone is 10 cm. Chocolate chip ice cream is placed all the way into the cone, plus an additional half-sphere with a height of 6 cm.



- A. What is the total volume of the ice cream?

- B. If there are 2 chocolate chips in every  $5 \text{ cm}^3$  of ice cream, how many chocolate chips are there?

